## Table of characteristics of included trials in alphabetical order by author

Trial Name/Publications/ Location/Design	Participants/Setting	Physical Activity Outcomes/Assessment Time	Intervention Details
Patient-motivated	Description of participants: Members of	Steps/day (pedometer)	Intervention condition
Health Promotion	the National Health Insurance, Umi	Baseline & 12 months	Sample size: 50
Plan (PHPP)	Town		Delivery: Health professional; face-to-face
*Babazono 2007	Inclusion criteria: BP Systolic 130-159,		individual; healthcare premises and at home
Japan	Diastolic 85-99 mmHg OR		Content: To establish a healthy lifestyle by setting
RCT	HbA1c level ≥5.6%		and prioritising goals and selecting lifestyle
	Exclusion criteria: Physicians		improvements. Active intervention period was ≤1
	judgement		month with 1 intervention contact
	Gender: 54% female		Attrition: 4% at 12 months
	Mean age (SD): 64.4 years (7.5)		Control condition
			Sample size: 49
			Content: Leaflets on how to enhance exercise
			Attrition: 16% at 12 months
Green prescription	Description of participants: Patients	PA duration (Kcal/kg/week	Intervention condition
intervention	attending rural & urban GP in central	total)	Sample size: 451
<b>*Elley 2003</b> ; Elley	and western region of Waikato, with	PA duration (Kcal/kg/week	Delivery: Health professional; face-to-face
2004; Elley 2005	less than 30min/day/wk moderate to	leisure time)	individual/telephone/printed material; healthcare
New Zealand (&	vigorous PA	(both computed using a self-	premises
Australia)	Inclusion criteria: Aged 40-79 years.	administered questionnaire	Content: Motivational interviewing techniques to
Clustered RCT	Answering no to: "As a rule, do you do	from the Auckland heart	advice on PA, give green prescription and provide
	at least half an hour of moderate or	study, which prompts for	feedback. Active intervention period was ≤1 month
	vigorous exercise (such as walking or a	recall of physical activity	with 1 intervention contact
	sport) on five or more days of the	over three months, to estimate	Attrition: 15% at 12 months
	week?"	total and leisure time	Control condition

Trial Name/Publications/ Location/Design	Participants/Setting	Physical Activity Outcomes/Assessment Time	Intervention Details
	Exclusion criteria: Patients were excluded if practice personnel considered them to be too unwell to participate, if they did not understand English, or if they were expecting to leave the region.  Gender: 50.5% Female  Mean age (SD): 57.9 (11.2)	expenditure of energy) PA duration (mins/week leisure exercise) (computed using a 3-month PA recall questionnaire and PA diary) Baseline & 12 months	Sample size: 427 Content: Received usual care – received intervention at the end of the study. Attrition: 15% at 12 months
Halbert 2000 Australia RCT	Description of participants: Sedentary adults based in the community Inclusion criteria: Sedentary adults aged 60+ years Exclusion criteria: Having a cerebrovascular or ischemic cardiac event in the previous 6 months, etc. Gender: 54% Female Mean age (SD): 67.6 (6.7)	PA duration (mins/session vigorous exercise) PA duration (mins/session walking) PA duration (session/wk vigorous exercise) PA duration (session/wk walking) Baseline, 3, 6 & 12 months	Intervention condition  Sample size: 149  Delivery: Unclear provider; face-to-face individual/printed material; healthcare premises  Content: Individualised advice about the benefits of PA and a pamphlet containing a plan for PA for the next three months through organised sessions. Active intervention period was 6 months with 5 intervention contacts  Attrition: 17% at 12 months  Control condition  Sample size: 150  Content: Pamphlet promoting good nutrition for older adults, which was discussed for 20 minutes  Attrition: 6% at 12 months
Hartslag (Heartbeat) Limburg project Harting 2006	Description of participants: Patients of GP practice's stratified by socioeconomic class and preventive	PA duration (% meeting PA target) (short validated questionnaire	Intervention condition Sample size: 670 Delivery: Health professional; face-to-face

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The Netherlands	orientation	addressing 11 activity	individual/telephone; unspecified setting
Clustered RCT	Inclusion criteria: Participants had to	categories scored in minutes	Content: Cardiovascular risk profile and theory-
	have a greater than 20% risk of	per day and days per week,	based stage-matched health counselling for healthy
	incurring a cardiovascular event within	producing an indirect PA	lifestyle change. Active intervention period was 2
	10 years	score. In addition, patients	months with 2 intervention contacts
	Exclusion criteria: Not reported	were asked to indicate the	Attrition: 16% at 4 months, 24% at 18 months
	Gender: 33.8% Female	number of days per week on	Control condition
	Mean age (SD): 62.3 (9.1)	which they were usually	Sample size: 630
		physically active for more	Content: Usual care from GP
		than 30 min (direct	Attrition: 8% at 4 months, 15% at 18 months
		assessment). Patients who	
		met the norm of being	
		sufficiently physically active,	
		based on direct plus indirect	
		assessments, were classified	
		as meeting the recommended	
		target.	
		Baseline, 4 & 18 months	
The Sex Hormones	Description of participants: Low active	PA duration (MET	Intervention condition
And Physical	postmenopausal women	hours/week)	Sample size: 96
Exercise (SHAPE)	Inclusion criteria: Sedentary	PA duration (total Baecke	Delivery: Health professional; face-to-face
trial	postmenopausal women	score)	group/telephone; healthcare premises
Hertogh 2010;	Exclusion criteria: 12 months since last	PA duration (sport score)	Content: Group combined endurance and strength
Monninkhof 2007	menses, use of hormone replacement or	PA duration (household	training programme over a period of 12 months.
The Netherlands	oral contraceptives in past 6 months,	score)	Active intervention period was 12 months with 40
RCT	active life style, $BMI > 40 \text{ or } < 22$ ,	PA duration (leisure score)	intervention contacts.

Trial		Physical Activity	
Name/Publications/	Participants/Setting	Outcomes/Assessment Time	Intervention Details
Location/Design			
	currently on or planning to go on a strict	(computed using Modified	Social support component: None
	diet, ever diagnosed with breast cancer,	Baecke questionnaire to	Attrition: 2% at 12 months, 19% at 24 months
	diagnosis of other types of cancer in the	assess habitual PA in elderly -	Control condition
	past 5 years, diabetes mellitus or other	sport, household and leisure	Sample size: 93
	endocrine related diseases, disorders or	are subscales; METS	Content: Requested to retain their habitual exercise
	diseases that might impede the	calculated based on sport and	pattern. They also receive newsletters
	participation in the exercise programme,	leisure score)	Attrition: 6% at 12 months, 24% at 24 months
	alcohol or drug abuse, maintenance use	Baseline, 12 & 24 months	
	of corticosteroids, use of beta blockers		
	& smoking		
	Gender: 100% Female		
	Mean age (SD): 58.7 (4.4)		
King 2000	Description of participants: Residents	PA duration (cal/kg/day	Intervention condition (fit & firm)
USA	of Sunnyvale, California	MVPA)	Sample size: 50
RCT	Inclusion criteria: Current resident of	(computed using Community	Delivery: Health professional; face-to-face
	Sunnyvale; 65+ years; absence of	Healthy Activities Model	group/telephone; community setting
	cardiovascular disease or stroke;	Program for Seniors	Content: Encouraged to participate in two exercise
	regularly active no more than twice a	instrument to assess self-	classes/week and to exercise at home at least twice a
	week during the preceding 6 months;	reported PA in elders and	week. Active intervention period was 12 months with
	free of musculoskeletal problems that	converted into energy	228 intervention contacts.
	would prevent moderate levels of PA;	expenditure)	Attrition: Unclear
	stable on all medications during the	Baseline & 12 months	Intervention condition (stretch & flex)
	previous 6-month period; and		Sample size: 46
	willingness to accept randomisation		Delivery: Health professional; face-to-face
	Exclusion criteria: Telephone		group/telephone; community setting
	interview (medical exclusions; already		Content: Encouraged to participate in two exercise

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	physically active based on study eligibility criteria; some had plans to move from the area within the next 2 years);  Gender: 61.2% Female  Mean age (SD): 70 (3.9)		classes each week and to exercise on their own at home at least twice a week. Active intervention period was 12 months with 16 intervention contacts. <i>Attrition</i> : Unclear
Community Health Advice by Telephone (CHAT) trial *King 2007; King 2002 USA RCT	Description of participants: Older adults in the community Inclusion criteria: 55+ years; not initially engaged in more than 60 minutes per week of moderate-intensity or vigorous PA over the previous 6 months; free of any medical condition that would limit participation in moderate-intensity exercise; BMI ≤40; average alcohol intake ≤3 drinks per day; able to speak and understand English; regular access to a touch tone phone; not planning to move from the area over the study period; willing to be randomised Exclusion criteria: As above Gender: 69.3% Female	PA duration (mins/week MVPA) PA duration (Kcal/kg/day MVPA) (computed using Stanford 7-day PA recall questionnaire) PA duration (Kcal/kg/day MVPA) PA duration (mins/week MVPA) (computed using Community Healthy Activities Model Program for Seniors) Baseline, 6 & 12 months	*Intervention condition (human advice intervention)  Sample size: 73  Delivery: Health professional; face-to-face individual/telephone; home  Content: Telephone-assisted PA counselling by a trained health educator.  Active intervention period was 12 months with 16 intervention contacts.  Attrition: 10% at 12 months  Intervention condition (automated advice intervention)  Sample size: 75  Delivery: Health professional; face-to-face individual/telephone; home  Content: Telephone-assisted PA counselling by an automated telephone-linked computer system.
	Mean age (SD): 60.8 (5.5)		Active intervention period was 12 months with 16 intervention contacts.  Attrition: 19% at 12 months

Trial Name/Publications/ Location/Design	Participants/Setting	Physical Activity Outcomes/Assessment Time	Intervention Details
			Control condition
			Sample size: 70
			Content: Offered weekly health education classes
			that focused on a variety of non-PA topics of interest
			to middle and older aged adults such as nutrition and
			home safety, and were asked not to change their
			usual PA patterns
			Attrition: 11% at 12 months
The Women On the	Description of participants:	Steps/day (pedometer)	Intervention condition
Move through	Postmenopausal women on hormone	PA duration (MET	Sample size: 222
Activity And	therapy (HT)	hours/week) (computed using	Delivery: Health professional; face-to-face group;
Nutrition	<i>Inclusion criteria:</i> 52 – 62 years with at	Modifiable Activity	unspecified setting
(WOMAN) trial	least 2 years HT, waist circumference	Questionnaire)	Content: Lifestyle changes promoting 150 mins/week
*Kuller 2006;	$(WC) \ge 80$ cm, LDL-C between 100 &	Baseline & 18 months	of moderate intensity PA, reduction in calorific
Newman 2009	160, BMI 25 – 39.9, BP < 160/95 at		intake and improved diet. Active intervention period
USA	screening but 140/90 at randomisation,		was 12 months with 40 intervention contacts.
RCT	a Beck Depression Index of <20, no		Attrition: 31% at 18 months
	diagnosis of psychotic, anxiety, no		Control condition
	eating disorder, not depressed, non-		Sample size: 194
	diabetic, no use of cholesterol lowering		Content: Health education seminars from Dietary
	medication, no history of cancer in 2		Guidelines for America
	years, ability to walk 400m with HR		Attrition: 15% at 18 months
	>40 & <135 beats throughout, willing to		
	be randomised		
	Exclusion criteria: Not reported		
	Gender: 100% Female		

Trial		Dhysical Activity	
Name/Publications/	Participants/Setting	Physical Activity Outcomes/Assessment Time	Intervention Details
Location/Design		Outcomes/Assessment Time	
	Mean age (SD): 56.0 (Not reported)		
Diabetes Prevention	Description of participants: Overweight	PA duration (% meeting	Intervention condition
Study (DPS)	subjects & relatives of those with type 2	PA target of >4 hours	Sample size: 265
*Lindstrom 2010;	diabetes (DPS)	exercise per week	Delivery: Health professional; face-to-face
Lindstrom 2003;	Inclusion criteria: 40-64 years with	(computed by a shift to a	individual/group/telephone/printed material;
Lindstrom 2003(b);	BMI >25 kg/m2 at screening and the	higher category of frequency	healthcare premises
Tuomilehto 2001	mean value of two 75-g OGTTs in the	and intensity of PA)	Content: Individual lifestyle counselling to increase
Finland	impaired glucose tolerance range based	PA duration (mins/week	PA and individually tailored circuit-type training.
RCT	on WHO criteria	total PA)	Active intervention period was 12 months with 7
	Exclusion criteria: Diagnosis of	PA duration (mins/week	intervention contacts
	diabetes mellitus or the presence of a	MVPA)	Attrition: 3% at 12 months; 4% at 24 months
	chronic disease, etc.	(computed using Leisure	Control condition
	Gender: 67% Female	Time PA questionnaire;	Sample size: 257
	Mean age (SD): 55.0 (7.0)	Kuopio Ischemic Heart	Content: Educational: General information (verbal &
		Disease Risk Factor)	written) on lifestyle and diabetes risk. Advised on
		Baseline, 12 & 36 months	how to reduce BMI, alcohol and to stop smoking
			Attrition: 2% at 12 months; 4% at 24 months
Keep Active	Description of participants: 50 – 70	PA duration (Kcal/wk	Intervention condition
Minnesota (KAM	year olds from one large managed care	total PA)	Sample size: 523
Study)	organisation	PA duration (Kcal/wk	Delivery: Health professional; face-to-face
*Martinson 2010;	Inclusion criteria: Self-reported that	MVPA)	group/telephone/printed material; home
Crain 2010;	they had increased their physical	(computed using Community	Content: Interactive telephone and mail-based PA
Sherwood 2008	activity over the last year &	Healthy Activities Model	support program including coaching, assignments,
USA	accumulating an average 30m moderate	Program for Seniors	goal setting and self-monitoring (pedometer). Active
RCT	to vigorous PA at least 2 days per week	instrument to assess self-	intervention period was 4 months with 7 intervention

Trial Name/Publications/ Location/Design	Participants/Setting	Physical Activity Outcomes/Assessment Time	Intervention Details
	over the past 4 weeks. Enrolled in a	reported frequency and	contacts
	health plan.	duration of a range of	Attrition: 2% at 6 months; 0% at 12 months; 10% at
	Exclusion criteria: Excluded if they had	common activities and	24 months
	a modified Charlson co-morbidity score	converted into weekly kcal	Control condition
	>3, or had diagnosis of various diseases	expenditure)	Sample size: 526
	Gender: 72% Female	Baseline, 6, <b>12 &amp; 24 months</b>	Content: Usual care, information leaflet and
	Mean age (SD): 57.1 (5.1)		newsletters
			Attrition: 2% at 6 months; 1% at 12 months; 19% at
			24 months
*Lawton 2008	Description of participants: Sedentary	PA duration (mins	Intervention condition
New Zealand	women recruited from 2 sources: cohort	PA/week)	Sample size: 544
RCT	(50-74yrs) of postmenopausal women	PA duration (%	Delivery: Health professional; face-to-face
	from 10 primary care practices & the	completing at least 150	individual/telephone; healthcare premises
	rest 50-70yrs (40-60yrs for Maori &	mins PA/week)	Content: Brief counselling using motivational
	Pacific women) recruited from 13	(both computed using the	interviewing techniques to increase PA. The exercise
	primary care practices including 2	long form of authors' PA	advice is written on a "green script," which is given
	Maori health clinics	questionnaire)	to the patient and faxed to a community based
	Inclusion criteria: Aged 40-74	Baseline, 12 & 24 months	exercise facilitator who provides telephone support.
	physically inactive, as determined by		Active intervention period was 9 months with 7
	one question screening tool: "As a rule,		intervention contacts.
	do you do at least half an hour of		Attrition: 8% at 12 months, 3% at 24 months
	moderate or vigorous exercise (such as		Control condition
	walking or a sport) on five or more days		Sample size: 545
	of the week?"		Content: Received usual care
	Exclusion criteria: medical condition		Attrition: 7% at 12 months, 4% at 24 months
	that might be adversely affected by		

Trial Name/Publications/	Participants/Setting	Physical Activity Outcomes/Assessment Time	Intervention Details
*McTiernan 2007 USA RCT	increasing their PA, as determined by the PA readiness questionnaire & subsequent assessment by GP Gender: 100% Female Mean age (SD): 58.9 (7.0)  Description of participants: Sedentary/unfit patients from gastroenterology practices Inclusion criteria: 40 – 75 years, <90 min/wk of moderate-to-vigorous intensity over the previous 3 months, <2 alcohol drinks/d, had no personal history of invasive cancer or other disease & had normal complete blood count & blood chemistries.  Exclusion criteria: Unwillingness to be randomised, non-sedentary and insufficient time availability Gender: 49.5% Female	Steps/day (pedometer) PA duration (mins/week MVPA) (computed using Minnesota Leisure Time PA questionnaire) Baseline, 3, 6, 9 & 12 months	Intervention condition  Sample size: 100  Delivery: Health professional; face-to-face (unclear if individual or group); healthcare premises and home Content: Facility and home-based exercise programme with regular monitoring and feedback. Active intervention period was 12 months with 156 potential intervention contacts  Attrition: 2% at 3 months, 1% at 12 months  Control condition  Sample size: 102  Content: Asked not to change diet or PA patterns  Attrition: 3% at 3 months, 0% at 12 months
40 1 1 2000	Mean age (SD): 55.2 (6.8)		
*Opdenacker 2008;	Description of participants: Retired	Vector magnitude/week	*Intervention condition (lifestyle intervention)
Opdenacker 2009	university employees & members of	(accelerometer)	Sample size: 60
Belgium	socio-cultural organisations for seniors	Steps/day (pedometer)	Delivery: Health professional; face-to-face
RCT	Inclusion criteria: >60 years, not having	PA duration (kcal/week	individual/group/telephone; home
	participated systematically in any	leisure PA)	Content: Home-based lifestyle programme to
	endurance or strength training in the 2	PA duration (kcal/week	integrate PA into daily routines with pedometer.

Trial Name/Publications/ Location/Design	Participants/Setting	Physical Activity Outcomes/Assessment Time	Intervention Details
	year period preceding the study. Not	active transportation	Active intervention period was 12 months with 23
	being physically active at moderate	PA duration (kcal/week	intervention contacts
	intensity for more than 2h a week at	household/garden activities)	Attrition: 8% at 12 months, 23% at 24 months
	recruitment	Baseline, 12 & 24 months	*Intervention condition (structured intervention)
	Exclusion criteria: All pathologies with		Sample size: 60
	contraindications for involvement in a		Delivery: Health professional; face-to-face
	training program such as stroke, etc. and		individual/group/telephone; home
	all neurodegenerative diseases (PD,		Content: Three weekly supervised sessions of 60–90
	etc.) Intake of medication known to		min in a fitness centre Participants exercised in
	affect exercise capacity or bone density		groups of 10 and were supervised by the two
	Gender: 47.7% Females		instructors.
	Mean age (SD): 67.1 (4.5)		Active intervention period was 12 months with 8
			intervention contacts
			Attrition: 3% at 12 months, 18% at 24 months
			Control condition
			Sample size: 60
			Content: Participated in the measurements only with
			no feedback
			Attrition: 5% at 12 months, 32% at 24 months
The Step Test	Description of participants: Patients	PA duration (Kcal/kg/day	Intervention condition
Exercise Prescription	receiving primary health care from	during light PA	Sample size: 193
Stage (STEPS) trial	family medicine clinics (urban & rural)	(computed using PA recall	Delivery: Health professional; face-to-face
Petrella 2010	Inclusion criteria: 55 – 85 years,	questionnaire)	individual/telephone; healthcare premises
Canada	inactive lifestyle; readiness to increase	Baseline & 12 months	Content: Individualized exercise prescriptions based
RCT	their PA levels based on their stage of		on sub-maximal step test results, and counselling and
	change; able to read and write English;		support based on their stages of exercise behaviour.

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	the absence of exclusionary medical		Active intervention period was 12 months with 16
	conditions, severe systemic or		intervention contacts.
	musculoskeletal disease preventing		Attrition: 12% at 12 months
	increased PA, or major psychiatric		Control condition
	disease		Sample size: 167
	Exclusion criteria: Not reported		Content: Individualized exercise prescriptions based
	Gender: 57.2% Female		on sub-maximal step test results
	Mean age (SD): 64.9 (7.1)		Attrition: 4% at 12 months
*Racette 2008;	Description of participants: Healthy	PA duration (MET	*Intervention condition (exercise)
Racette 2006	adults recruited from the St. Louis	hours/day above rest)	Sample size: 19
USA	metropolitan area	(computed using Stanford 7-	Delivery: Health professional; face-to-face individual
RCT	Inclusion criteria: Healthy adults	day PA recall questionnaire)	and/or group; unspecified setting
	between 50 and 60 years of age with a	Baseline, 1, 3, 6, 9 & <b>12</b>	Content: Instructed to increase daily PA energy
	BMI between 23.5 and 29.9, non-	months	expenditure without changing their dietary intake.
	smokers, not exercising regularly; all		Active intervention period was 12 months with 104
	women postmenopausal		intervention contacts.
	Exclusion criteria: Any medical		Attrition: Not reported
	conditions, smokers		Intervention condition (diet)
	Gender: 64.5% Female		Sample size: 19
	Mean age (SD): 57 (1.0)		Delivery: Health professional; face-to-face individual
			and/or group; unspecified setting
			Content: Instructed to modify their daily energy
			intake without changing their PA patterns. Active
			intervention period was 12 months with 104
			intervention contacts.
			Attrition: Not reported

Trial Name/Publications/ Location/Design	Participants/Setting	Physical Activity Outcomes/Assessment Time	Intervention Details
			Control condition
			Sample size: 10
			Content: Participants did not receive a diet or
			exercise prescription
			Attrition: Not reported
The Massachusetts	Description of participants: Uninsured	PA duration (% doing	Intervention condition
WISEWOMAN	and underinsured women receiving	adequate PA - at least 30	Sample size: 600
Project	CVD screening (Massachusetts	mins of MVPA at least 3	Delivery: Health professional; face-to-face
*Stoddard 2004	WISEWOMAN project, MWWP). Part	times per week)	individual/group/printed material; healthcare
USA	of the Massachusetts Breast & Cervical	(computed using two self-	premises
Clustered RCT	Cancer Initiative (MBCCI)	report questions)	Content: Enhanced lifestyle intervention focusing
	<i>Inclusion criteria:</i> Aged ≥50 years,	Baseline & 12 months	primarily on nutrition & PA to reduce CVD risk.
	uninsured or underinsured, eligible for		Length of active intervention period and number of
	MBCCI enrolment		intervention contacts was not specified.
	Exclusion criteria: Not reported		Attrition: 20% at 12 months
	Gender: 100% Female		Control condition
	Mean age (SD): 58 (Not reported)		Sample size: 475
			Content: All participants received a set of low-
			literacy fact sheets on cholesterol, blood pressure,
			blood glucose, nutrition, PA & stress reduction
			Attrition: 27% at 12 months
Vitalum trial	Description of participants: From 23	PA duration (hours/week)	*Intervention condition (combined tailored print
* van Keulen 2011;	Dutch general practices	(computed using 28-item	& telephone motivational monitoring)
van Keulen 2008	<i>Inclusion criteria:</i> 45 – 70 years; about	modified Community Healthy	Sample size: 408
The Netherlands	50% diagnosed by their GP as	Activities Model Program for	Delivery: Participant under instruction; printed
RCT	hypertensive according to the	Seniors)	material/telephone; home

Trial Name/Publications/ Location/Design	Participants/Setting	Physical Activity Outcomes/Assessment Time	Intervention Details
	International Classification of Primary Care, about 50% male; not participating in other studies according to the GP database; & maximum one person per address <i>Exclusion criteria</i> : Failing to meet at least 2 public health guidelines: PA and either fruit or vegetable consumption. Intellectual disability, unable to speak/read Dutch, suffering from some disorder <i>Gender:</i> 45% Female <i>Mean age (SD):</i> 57.2 (7.1)	Baseline, 6, 12 & 18 months	Content: Two tailored print letters and two telephone motivational interviews. Given a pedometer. Active intervention period was 10 months with 5 intervention contacts.  Attrition: 30% at 18 months  Intervention condition (tailored print communication only)  Sample size: 405  Delivery: Participant under instruction; printed material; home  Content: Four tailored print letters and given a pedometer. Active intervention period was 10 months with 5 intervention contacts.  Attrition: 33% at 18 months  Intervention condition (telephone motivational interviewing only)  Sample size: 407  Delivery: Participant under instruction; telephone; home  Content: Four telephone motivational interviews and given a pedometer. Active intervention period was 10 months with 5 intervention contacts.  Attrition: 26% at 18 months  Control condition  Sample size: 409
			Content: Received one tailored letter based on the

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			last follow-up questionnaire.
			Attrition: 20% at 18 months
*van Stralen 2010	Description of participants: Older	PA duration (mins/week	*Intervention condition (environmentally
the Netherlands	adults from 6 Dutch Regional	total PA)	tailored)
Clustered RCT	Municipal Health Councils	(computed using the Short	Sample size: 737
	Inclusion criteria: Aged 50+ years	Questionnaire to Assess	Delivery: Participant under instruction; printed
	Exclusion criteria: Not reported	Health-enhancing PA – total	material; home
	Gender: 57% Female	mins per activity calculated	Content: Three tailored letters including personalised
	Mean age (SD): 64 (8.6)	by multiplying frequency of	PA advice and tailored information about PA
		activity (days/week) by	opportunities in specific environment. Active
		duration of activity regardless	intervention period was 4 months with 5 intervention
		of intensity)	contacts.
		Baseline & 12 months	Attrition: 35% at 6 months, 38% at 12 months
			Intervention condition (basic)
			Sample size: 654
			Delivery: Participant under instruction; printed
			material; home
			Content: Three tailored letters including personalised
			PA advice. Active intervention period was 4 months
			with 5 intervention contacts.
			Attrition: 33% at 6 months, 34% at 12 months
			Control condition
			Sample size: 586
			Content: Waiting list control participants received
			nothing during the intervention period
			Attrition: 17% at 6 months, 21% at 12 months

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*Wang 2008 USA RCT	Description of participants: Women recruited from the Piedmont Triad area of North Carolina, USA Inclusion criteria: 50–70 years, & at least one year without menses, overweight or obese (BMI = 25–40 & waist girth > 88 cm), non-smoking, postmenopausal, not on hormone therapy, sedentary (<15 min of exercise, 2 times/wk) in the past 6 months & weight-stable (< 5% weight change) for at least 6 months prior to enrolment.  Exclusion criteria: Participants with evidence of untreated hypertension, hypertriglyceridemia (triglycerides > 400 mg/dl), insulin-dependent diabetes, active cancer, liver, renal or haematological disease, or other medical disorders.  Gender: 100% Female  Mean age (SD): 58.6 (5.2)	PA duration (PA/week) (computed using Physical Activity Scale for the Elderly) kJ/day PA energy expenditure (accelerometer) Baseline, 6 & 12 months	Intervention condition (diet & high exercise)  Sample size: 13  Delivery: Unspecified provider; face-to-face (unclear if individual or group); university facility  Content: Exercise prescription of centre-based treadmill walking three days/week at a target heart rate progressing to 70-75% of maximum, meal provision and food diaries. Active intervention period was 5 months with 60 intervention contacts.  Attrition: 15% at 12 months  Intervention condition (diet & low exercise)  Sample size: 13  Delivery: Unspecified provider; face-to-face (unclear if individual or group); university facility  Content: Exercise prescription of centre-based treadmill walking three days/week at a target heart rate of 45-50% of maximum, meal provision and food diaries. Active intervention period was 5 months with 60 intervention contacts.  Attrition: 8% at 12 months  Control condition  Sample size: 15  Content: Diet only group  Attrition: 27% at 12 months
Wageningen Approach against fat Accumulation and	Description of participants: Recent retirees recruited from pre-retirement workshops as offered by employers to	PA duration (hours/day total PA) PA duration (min/week –	Intervention condition Sample size: 209 Delivery: Unspecified provider; internet/printed;

Trial Name/Publications/ Location/Design	Participants/Setting	Physical Activity Outcomes/Assessment Time	Intervention Details	
weight Gain	10% of Dutch population	daily routine PA)	home	
(WAAG) trial	<i>Inclusion criteria:</i> 55 – 65 years,	PA duration (min/week	Content: Printed and computer tailored modules to	
*Werkman 2010;	recently retired, apparently healthy and	recreational sports PA)	improve PA and diet. Active intervention period was	
Werkman 2006	not undergoing any medical treatment	PA duration (sum of	12 months with 15 intervention contacts	
The Netherlands	that might affect the outcome measures	household activities)	Attrition: 2% at 12 months, 11% at 24 months	
Clustered RCT	Exclusion criteria: Not reported	(all measures computed	Control condition	
	Gender: 14.8% Female	using the Dutch version of	Sample size: 204	
	Mean age (SD): 59.5 (2.4)	the Physical Activity Scale	Content: Newsletters and general information about	
		for the Elderly).	the study.	
		Baseline, 12 & 24 months	Attrition: 5% at 12 months, 9% at 24 months	
Pre-diabetes Risk	Description of participants: Overweight	Steps/day (pedometer)	*Intervention condition (PREPARE plus	
Education and	& obese individuals with impaired	PA duration (MET	pedometer)	
Physical Activity	glucose intolerance (IGT) at University	min/week total MVPA)	Sample size: 35	
Recommendations &	Hospitals of Leicester	PA duration (MET	Delivery: Health professional; face-to-face group;	
Encouragement	Inclusion criteria: Overweight/obese	min/week walking)	healthcare premises	
(PREPARE)	BMI ≥25 or ≥23 for South Asians	(METs computed using long	Content: Education programme addressing the	
*Yates 2009; Yates	Exclusion criteria: Taking steroids &	version of last 7-days form of	causes, complications, timeline, and identity of	
2010; Yates 2008	diagnosis of Type 2 diabetes	International Physical	impaired glucose tolerance; and addressing the	
UK	Gender: 45% Female	Activity Questionnaire)	perceived effectiveness of PA as a treatment.	
RCT	Mean age (SD): 64 (9)	Baseline, 3, 6 & <b>12 months</b>	Participants provided with a pedometer and	
			encouraged to set personalised steps-per-day goals	
			based on their baseline ambulatory activity level.	
			Active intervention period was 1 month with 1	
			intervention contact	
			Attrition: 6% at 3 months, 9% at 6 months, 13% at	
			12 months	

Trial Name/Publications/ Location/Design	Participants/Setting	Physical Activity Outcomes/Assessment Time	Intervention Details	
			Intervention condition (PREPARE only)	
			Sample size: 33	
			Delivery: Health professional; face-to-face group;	
			healthcare premises	
			Content: Education programme addressing the causes, complications, timeline, and identity of impaired glucose tolerance; and addressing the perceived effectiveness of PA as a treatment. Participants encouraged to set time-based goals to match advice give to pedometer group. Active intervention period was 1 month with 1 intervention contact.  Attrition: 12% at 3 months, 3% at 6 months, 4% at	
			12 months Control condition	
			Sample size: 35	
			Content: Brief information sheet in the mail,	
			detailing the likely causes, consequences, etc. associated with impaired glucose tolerance, along	
			with information about how PA can be used to	
			treat/control the condition	
			Attrition: 9% at 3 months, 9% at 6 months, 17% at	
			12 months	

MVPA = moderate to vigorous physical activity; PA = physical activity.

An asterisk before the author name (\*NAME) indicates that the trial was included in meta-analysis; an asterisk before the intervention condition (\*INTERVENTION CONDITION) denotes which intervention arm was the most intensive and used in analyses to compare with the control arm; for trials reported in multiple publications, the reference in **bold** indicates the publication used to denote the trial in the review.

Physical activity outcomes and assessment times in **bold** indicate the data used in this review